

Listing of Claims:

1. (Currently Amended) A method for manufacturing an electronic circuit arrangement in a motor vehicle fuel tank, comprising:

arranging one or more electronic modules on a substrate;

fixating said substrate with respect to a fuel tank wall; and

soldering a metal cap to metallization on said substrate to form an encapsulated space, said one or more electronic modules being disposed in said encapsulated space and separated from any fuel or vapour outside said encapsulated space,

wherein no part of the electronic circuit arrangement is exposed to any fuel or vapour.

2. (Canceled).

3. (Currently Amended) An electronic circuit arrangement for measuring a fuel level in a motor vehicle fuel tank, comprising:

a substrate;

one or more electronic modules that are arranged on the substrate, wherein said substrate is suitable for fixating with respect to a fuel tank wall; and

a metal encapsulating cap soldered to metallization on said substrate and forming an encapsulated space, said one or more electronic modules being disposed in said encapsulated space and separated from any fuel or vapour outside said encapsulated space,

wherein no part of the electronic circuit arrangement is exposed to any fuel or vapour.

4. (Canceled).

5. (Previously presented) An electronic circuit arrangement as claimed in claim 3, wherein said substrate is a ceramic substrate.

6. (Previously presented) An electronic circuit arrangement as claimed in claim 3, wherein said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

7. (Currently Amended) A motor vehicle fuel tank, comprising:

an electronic circuit arrangement configured to measure a fuel level in said motor vehicle fuel tank, said electronic circuit arrangement comprising:

one or more electronic modules that are arranged on a substrate, wherein said substrate is suitable for fixating with respect to a fuel tank wall; and

a metal encapsulating cap soldered to metallization on said substrate and forming an encapsulating space, said one or more electronic modules being disposed in said encapsulated space and separated from any fuel or vapour outside said encapsulated space,

wherein no part of the electronic circuit arrangement is exposed to any fuel or vapour.

8. (Previously presented) A motor vehicle fuel tank as claimed in claim 7, wherein said substrate comprises one or more electrical through-connections to an outside of said fuel tank.

9 (Currently Amended) A motor vehicle, comprising:
a fuel tank, said fuel tank comprising:
an electronic circuit arrangement for measuring a fuel level in said fuel tank, said electronic circuit arrangement comprising:
one or more electronic modules that are arranged on a substrate, wherein said substrate is suitable for fixating with respect to a fuel tank wall; and
a metal encapsulating cap soldered to metallization on said substrate and forming an encapsulating space, said one or more electronic modules being disposed in said encapsulating space and separated from any fuel or vapour outside said encapsulated space,
wherein no part of the electronic circuit arrangement is exposed to any fuel or vapour.

10. (Canceled).

11. (Previously presented) A motor vehicle fuel tank as claimed in claim 7, wherein said substrate is a ceramic substrate.

12. (Previously presented) A motor vehicle fuel tank as claimed in claim 7, wherein said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

13. (Canceled).

14. (Previously presented) A motor vehicle as claimed in claim 9, wherein said substrate is a ceramic substrate.

15. (Previously presented) A motor vehicle as claimed in claim 9, wherein said one or more electronic modules comprise a magnetically driven circuit or an ultrasound driven circuit for effecting said measuring.

16. (Previously presented) A method as claimed in claim 1, wherein said step of fixating comprises fixating said substrate directly to the fuel tank wall.

17. (Previously presented) An electronic circuit arrangement as claimed in claim 3, wherein said substrate is suitable for fixating directly to the fuel tank wall.

18. (Previously presented) A motor vehicle fuel tank as claimed in claim 7, wherein said substrate is fixated directly to the fuel tank wall.

19. (Previously presented) A motor vehicle as claimed in claim 9, wherein said substrate is fixated directly to the fuel tank wall.